INTERNATIONAL SEARCH REPORT

International application No. PCT/CA2004/001968

A. CLASSIFICATION OF SUBJECT MATTER

According to International Patent Classification (IPC 7): A61K 35/74; A61K 38/00; A61K 35/00

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A61K 35/74; A61K 38/00; A61K 35/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used) Delphion; Medline

Search terms: Lactic acid bacteria, probiotic; lactobacillus, angiogenesis, cancer, arthritis, psoriasis.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No(s).	
P, Y	BAHARAV, E. et al. Lactobacillus GG bacteria ameliorate arthritis in Lewis rats. J NUTR. August 2004, Vol.134, No.8, pages 1964-1969, see whole document.	1, 14-17, 19-21, 23	
Р, У	WO 2004/069178 A2 (VERSALOVIC, J. et al.) 19 August 2004 pages 4-7, 31-41	5-13, 19-31	
X Y	WO 03/045405 A2 (LUQUET, F-M. et al.) 5 June 2003, see whole document	1-8, 14-26, 31 27-30	
X Y	ARIMOCHI, H. et al. Effect of Intestinal Bacteria on Formation of Azoxymethane-Induced Aberrant Crypt Foci in the Rat Colon. BIOCHEM BIOPHYS RES COMMUN. 1997, Vol.238, No.3, pages 753-757, see whole document.	1, 5-10, 12-15, 17-19, 21-24, 26 11, 16, 20	

[X] Further documents are listed in the continuation of Box C.	[X] See patent family annex.	
Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of mother citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family	
Date of the actual completion of the international search 04 February 2005 (04-02-2005)	Date of mailing of the international search report 14 March 2005 (14-03-2005)	
Name and mailing address of the ISA/CA Canadian Intellectual Property Office Place du Portage I, C114 - 1st Floor, Box PCT 50 Victoria Street Gatineau, Quebec K1A 0C9 Facsimile No: 001(819)953-2476	Authorized officer Cynthia Brewer (819) 997-4921	

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International application No. PCT/CA2004/001968

C (Continuat	ion). DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the	Relevant to claim No(s).		
X Y	KATO, I. et al. Suppressive effects of the oral administration of Lact type II collagen-induced arthritis in DBA/1 mice. LIFE SCI. 1998, Ve 635-644, see whole document.	1, 14, 15, 17, 19, 2 16, 20	21, 23	
Y	MITAL, B.K. et al. Anticarcinogenic, Hypocholesterolemic, and Anta Lactobacillus acidophilus. CRIT REV MICROBIOL. 1995, Vol. 21, 1 see whole document.	1-23		
Y	MATSUZAKI, T. Immunomodulation by treatment with Lactobacillu Shirota. INT J FOOD MICROBIOL. 1998, Vol.41, No.2, pages 133- document.	1-23		
. Y	GRIFFIOEN, A.W. et al. Angiogenesis: Potentials for Pharmacologic Treatment of Cancer, Cardiovascular Diseases, and Chronic Inflamma REV. 2000, Vol.52, No.2, pages 237-268, see whole document.	1-23		
A	HIRAYAMA, K. et al. The role of probiotic bacteria in cancer preve AND INFECTION. 2000, Vol.2, No.6, pages 681-686, see whole doc	1-31	•	
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Box No.	п.	Observa	ations where cert	ertain claims were found unsearchable (Continuation of item 2 of the first sheet)	
	77	-			
This inte	rnati	onal search re	port has not been	en established in respect of certain claims under Article 17(2)(a) for the following reason	ns:
7.	beca	Although clai search und	e to subject matte ms 19 to 23 are d	tter not required to be searched by this Authority, namely: directed to methods of treatment of the human /animal body which this Authority is not) of the PCT, the search has been carried out based on the alleged effects of the composi o therein.	t obliged to
8.	beca			e international application that do not comply with the prescribed requirements to such a search can be carried out, specifically:	an extent
9.	[] bec	Claims Nos. ause they are		ns and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Box No.	ш	Observ	ations where uni	nity of invention is lacking (Continuation of item 3 of first sheet)	
This Interr	nation	nal Searching	Authority found π	multiple inventions in this international application, as follows:	en in like kielling
10.	[]	As all requir	ed additional sear	arch fees were timely paid by the applicant, this international search report covers all se	earchable
11.	[]	As all search		ld be searched without effort justifying an additional fee, this Authority did not invite pa additional fee.	ayment of
12.	[]	As only some only those cl	e of the required a aims for which fe	l additional search fees were timely paid by the applicant, this international search repor fees were paid, specifically claim Nos. :	rt covers
13.	[]			th fees were timely paid by the applicant. Consequently, this international search report set mentioned in the claims; it is covered by claim Nos. :	is
Remari	k on]	Protest	[]	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/CA2004/001968

WO 2004/069178 A2	19-08-2004	US20040208863 A1	21-10-2004	
WO 03/045405 A2	05-06-2003	EP1450832 A2 CA2467449 AA CA2364249 AA AU2349226 AA	01-09-2004 05-06-2003 27-05-2003 10-06-2003	